Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the subject application:

In the Claims

1. (Canceled)

2. (Currently Amended) An electrostatic circuit for footwear wherein said footwear includes ~~having~~ an outsole having electrically conductive properties, an insole having electrically conductive properties, and a midsole between the insole and outsole that is substantially non-electrically conductive, said electrostatic circuit comprising:

~~a conductor~~ an electrically conductive path extending between said outsole and said insole through said midsole, one end of said conductive path being in electrical contact with said outsole and the other end of said conductive path being in electrical contact with said insole ~~having a first end and a second end~~;

a ~~conductive~~ pad adapted for large area contact with one of said insole and said outsole, said pad having an electrically conductive portion that includes stitching that lies in ~~attached said first end of~~ said ~~conductor~~ electrically conductive path; and

~~said conductive pad being attachable to one of said outsole and said insole;~~

~~said second end of said conductive path being attachable to the other of said outsole and said insole;~~

an at least one resistor electrically coupled to said electrically conductive path ~~between said first and second ends thereof~~.

3. (Currently amended) The electrostatic circuit of claim 2 wherein the total impedance provided by said at least one ~~resistors~~ resistor is less than or equal to 10^7 ohms.

4. (Currently amended) The electrostatic circuit of claim 2 wherein said ~~conductive~~ pad is fabricated from electrically conductive ~~EVA~~ Ethylene Vinyl Acetate.

5. (Canceled without disclaimer or prejudice)

6. (Currently amended) An electrostatic circuit for footwear having an outsole, an insole and a midsole between the insole and outsole, said electrostatic circuit comprising:

~~a conductor~~ an electrically conductive path having a first end and a second end;

~~a~~ electrically conductive pad ~~attached~~ sized for large area contact with one of said insole and said outsole, said electrically conductive pad being stitched to said second end of said ~~conductor~~ conductive path;

said electrically conductive pad being attachable to one of said outsole and said insole;

said first end of said electrically conductive path being attachable to the other of said outsole and said insole; and

at least one resistor electrically coupled to said electrically conductive path between said first and second ends thereof.

7. (Currently amended) The electrostatic circuit of claim 6 wherein the total impedance provided by said at least one ~~resistors~~ resistor is less than or equal to 10^7 ohms.

8. (Currently amended) The electrostatic circuit of claim 6 wherein said electrically conductive pad is fabricated from conductive ~~EVA~~ Ethylene Vinyl Acetate.

9. (Canceled without disclaimer or prejudice)

10. (Currently amended) A sole for a conductive shoe, said sole comprising:

an outsole;

a midsole adjacent said outsole;

an insole adjacent said midsole; and

~~a~~ at least one electrically conductive path having a first end and a second end, said first end attached to ~~a~~ an electrically conductive pad, said electrically conductive pad ~~attached to~~

completely contained between said outsole and said midsole and wherein said second end of said electrically conductive path attached to said insole; and

at least one resistor electrically coupled to each said electrically conductive path.

11. (Previously presented) The sole of claim 10 further comprising a sock liner adjacent said insole.

12. (Previously presented) The sole of claim 10 wherein said outsole is fabricated from material selected from the group consisting of polyurethane and rubber.

13. (Previously presented) The sole of claim 10 wherein said outsole has an electrical resistance value of less than $1x10^6$ ohms.

14. (Currently amended) The sole of claim 10 wherein said midsole is fabricated from material selected from the group of polyurethane and ~~EVA~~ Ethylene Vinyl Acetate .

15. (Previously presented) The sole of claim 10 wherein said midsole has an electrical resistance value of greater than $1x10^7$ ohms.

16. (Previously presented) The sole of claim 10 wherein one side of said outsole has a tread pattern thereon.

17. (Currently amended) The sole of claim 10 wherein said conductive pad is stitched to said first end of said electrically conductive path.

18. (Currently amended) A sole for a conductive shoe, said sole comprising:

an outsole;

a midsole adjacent said outsole;

an insole adjacent said midsole; ~~and~~

a pad, at least a portion of which is electrically conductive and sized for large area contact with one of said insole and said outsole;

~~a~~ at least one electrically conductive path having one end thereof in electrical contact with said electrically conductive portion of said pad and being stitched thereto, said electrically

conductive portion of said pad in electrical contact with said insole, said electrically conductive path extending through said midsole such that another end of said electrically conductive path is in electrical contact with said outsole ~~having a first end and a second end, said second end attached to a conductive pad, said conductive pad attached to said insole and said first end of said conductive path attached to said outsole~~; and

at least one resistor electrically coupled to each said electrically conductive path.

19. (Previously presented) The sole of claim 18 further comprising a sock liner adjacent said insole.

20. (Previously presented) The sole of claim 18 wherein said outsole is fabricated from material selected from the group consisting of polyurethane and rubber.

21. (Previously presented) The sole of claim 18 wherein said outsole has an electrical resistance value of less than $1x10^6$ ohms.

22. (Currently amended) The sole of claim 18 wherein said midsole is fabricated from material selected from the group of polyurethane and ~~EVA~~ Ethylene Vinyl Acetate .

23. (Previously presented) The sole of claim 18 wherein said midsole has an electrical resistance value of greater than $1x10^7$ ohms.

24. (Previously presented) The sole of claim 18 wherein one side of said outsole has a tread pattern thereon.

25. (Canceled without disclaimer or prejudice)

26. (Currently amended) A method for applying a desired amount of electrical ~~impendence~~ impedance to an electrostatic current passing through a shoe having an outsole, an insole and a midsole between the outsole and insole, said method comprising:

affixing a resistor to at least one electrically conductive path having two ends;

~~extending a conductive path having two ends and a resistor between the outsole and the insole;~~

~~affixing~~ stitching one end of the electrically conductive path to a ~~conductive~~ pad having an electrically conductive portion;

affixing the ~~conductive~~ pad to the insole, such that the electrically conductive portion is in electrical contact with said insole;

extending the conductive path through said midsole; and

affixing another end of the electrically conductive path to the outsole.

27. Canceled without disclaimer or prejudice.

28. (Currently amended) A method for applying a desired amount of electrical ~~impendence~~ impedance to an electrostatic current passing through a shoe having an outsole, an insole and a midsole between the outsole and insole, said method comprising:

affixing at least one resistor to at least one electrically conductive path having two ends;

extending ~~a~~ each electrically conductive path ~~having two ends and a resistor~~ between the outsole and the insole;

affixing one end of the electrically conductive path to ~~a~~ an electrically conductive pad;

affixing the electrically conductive pad to the outsole such that the electrically conductive pad is located completely between the midsole and the outsole; and

affixing another end of the electrically conductive path to the insole.

29. (Currently amended) The method of claim 28 wherein the electrically conductive path extends through an opening in the midsole.

30. (Currently amended) An electrostatic circuit for a sole comprising:

~~a~~ at least one electrically conductive path having a first end and a second end; ~~and~~

at least one resistor located between the first end and second ends of each said electrically conductive path and being electrically coupled thereto; ~~and~~

~~a conductive~~ an attachment pad assembly ~~attached~~ in electrical contact with ~~to~~ one of said first and second ends of said electrically conductive path, said attachment pad assembly having at least a portion that is electrically conductive; and

stitching lying in each said electrically conductive path and affixing said electrically conductive path to said electrically conductive portion of said attachment pad assembly such that electrical current passing through said electrically conductive path passes into said electrically conductive portion of said attachment pad assembly.

31. (New) The electrostatic circuit of claim 2 wherein said stitching is in electrical contact with one of said insole and said outsole.